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DATE MAILED: 05/02/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/938,223	08/23/2001	Thomas A. Baudendistel	DP-305926	1694
7:	590 05/02/2002			
Scott A. McBain			EXAMINER	
Delphi Technol Mail Code: 480			BUDD, MAR	K OSBORNE
P.O. Box 5052 Troy, MI 48007-5052			ART UNIT	PAPER NUMBER
<b>,</b> ,			2834	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 938 223 Examiner	Applicant(s) Bauden distel Group Art Unit
,	M. Bodo	2834
The MAILING DATE of this communication app	ears on the cover sheet b	eneath the correspondence address
Period for Response	- 7	
A SHORTENED STATUTORY PERIOD FOR RESPONSE IS MAILING DATE OF THIS COMMUNICATION.	S SET TO EXPIRE	MONTH(S) FROM THE
<ul> <li>Extensions of time may be available under the provisions of 37 CF from the mailing date of this communication.</li> <li>If the period for response specified above is less than thirty (30) date of the period for response is specified above, such period shall, by</li> <li>Failure to respond within the set or extended period for response to</li> </ul>	ays, a response within the statuto default, expire SIX (6) MONTHS	ry minimum of thirty (30) days will be considered timely from the mailing date of this communication .
Status		
☐ Responsive to communication(s) filed on		
☐ This action is <b>FINAL</b> .		
☐ Since this application is in condition for allowance exceed accordance with the practice under Ex parte Quayle, 1		
Disposition of Claims		
Claim(s) 1-17		is/are pending in the application.
Of the above claim(s)		is/are withdrawn from consideration.
☐ Claim(s)		is/are allowed.
☐ Claim(s)	*	is/are rejected.
☐ Claim(s)		
☐ Claim(s)		
Application Papers		requirement.
	ving Povious PTO 049	
<ul> <li>□ See the attached Notice of Draftsperson's Patent Drav</li> <li>□ The proposed drawing correction, filed on</li> </ul>	<del>-</del>	disapproved
☐ The drawing(s) filed on is/are ob		disapproved.
☐ The specification is objected to by the Examiner.	,, <del>-</del>	
☐ The oath or declaration is objected to by the Examiner	<b>'.</b>	
Priority under 35 U.S.C. § 119 (a)-(d)		
<ul> <li>□ Acknowledgment is made of a claim for foreign priority</li> <li>□ All □ Some* □ None of the CERTIFIED copies</li> <li>□ received.</li> </ul>		•
☐ received in Application No. (Series Code/Serial Nur	nber)	·
$\hfill \square$ received in this national stage application from the I		ule 1 7.2(a)).
*Certified copies not received:		

U. S. Patent and Trademark Office PTO-326 (Rev. 3-97)

Attachment(s)

Information Disclosure Statement(s), PTO-1449, Paper No(s).

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

Notice of References Cited, PTO-892

☐ Notice of Informal Patent Application, PTO-152

☐ Interview Summary, PTO-413

☐ Other\_

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, of patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-7, 13 and 14 are rejected under 35 U.S.C. 102(a) as being clearly anticipated by Richter.

Note especially fig. 9 of Richter which teaches a flex spline gear driven into two point contact with an outer gear to drive one member relative to the other..

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8-12 and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Richter in view of Kushida or Nishi Kura.

Richter (fig. 9) teaches the harmonic motor except for the transducer element being an array coupled to the inside of the flex-spline gear. Note that Richter contemplates the use of various suitable transducer materials including electro magnetic and magneto strictive (col. 1, ln. 10-38).

However, the drive transducers of Richter are not.

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However, each of Kushida and Nishimora teach driving a flex member (stator) via an array of sequentially excited transducer element to move the stator into selected moving contact with the moveable member to produce motion. Thus to drive the flexible spline gear of Richter with this known transducer array? Would have been obvious to one of the ordinary skill in the art.

Further cited of interest are Tojo (fig. 11-14), Bonin and Humphreys.

MAKE U. BUDD PAMAKY EXAMINER ART UNIT 212